

PATENT ABSTRACTS OF JAPAN

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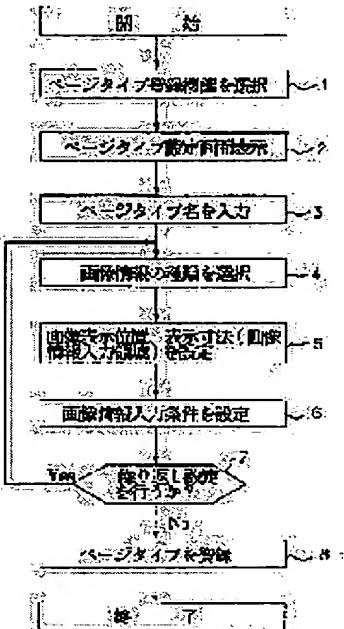
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(54) ALBUM TYPE IMAGE DATA BASE SYSTEM

(57)Abstract:

PURPOSE: To shorten the time required for the registration of the album of the album type image data base system by facilitating input operation for image information.

CONSTITUTION: A combination of pieces of information on the kind of image information inputted to pages constituting the album, the display position and display size of the image information, and the input conditions of the image information is defined as page types and registered, a desired page type is selected among the page types registered when the album is registered to set a page in the album, and the image information is inputted to the page according to the combination of pieces of information on the kind, display position, display size, and input conditions of the image information set in the page or by altering part of the combination. Consequently, the input operation for the image information of the album type image data base system is facilitated and the time required for the registration of the album is shortened.



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CLAIMS

[Claim(s)]

[Claim 1] The album which can be specified as only by one or more indexes or keywords is defined. This album is constituted by one or more pages. For every page concerned one or more image information In the album mold image database system registered by matching with the input condition of the fractional dimension within the class of this image information, and the page concerned of this image information, the information on a display position, and this image information Consider the input condition of the fractional dimension within the class of image information registered into the page which constitutes an album, and the page of this image information, a display position, and this image information as a page type, and definition and registration of it are done. At the time of registration of the image information to an album, choose a desired page type out of the already registered page type, and a page is set as the above-mentioned album at it. Album mold image database system characterized by changing these parts and registering image information into the page concerned according to the input condition of the fractional dimension of the class of image information which it comes to set as this page by this, and this image information, a display position, and this image information.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention relates to image database system, and especially, image information is registered and saved or it relates to the image database system which has the means searched and displayed.

[0002]

[Description of the Prior Art] In this conventional kind of album mold image database system, image information is registered according to the procedure shown, for example in drawing 7. The registration approach of image information is explained according to the flow chart of drawing 7.

[0003] First, the add function of image information is chosen at step 41. It chooses from the album type already set up and registered at step 42, the album which should be registered is set up, and a value is set as the index for registration / retrieval and keyword of this album at step 43.

[0004] At step 44, the page which sets one page as this album, or has already been set up is chosen. The class of image information to input is chosen and specified at step 45. As a class of image information, there are color photography image information, monochrome photograph image information, color scanner image information, and black and white scanner image information, for example. At step 46, the input condition of the image information to input, an image display location, and an image display dimension are set up. As an input condition of image information, they are the resolution to color scanner image information, brightness, the number of bits per pixel, etc., for example. Image information is inputted and is expressed on an image display screen as step 47 according to the display position and fractional dimension within the set-up page.

[0005] At step 48, when it is judged whether image information is inputted further and image information is inputted, it progresses to step 49. When image information is not inputted any longer, it progresses to step 50. At step 49, in order to input the following image information, it is judged whether the page to input is changed. When changing a page, it progresses to step 44. When not changing a page, it progresses to step 45. An album is registered into a database at step 50.

[0006]

[Problem(s) to be Solved by the Invention] However, in the conventional album mold image database system, when image information was registered, information, such as a class of image information, an image information input condition, an image display location, and an image display dimension, needed to be set up or changed for every image information. Therefore, the long processing time was taken to register much image information, and there was a problem that the actuation for registration became very complicated.

[0007] or [that the group of information, such as the class, an input condition of image information, an image display location, and an image display dimension, is similar about the image information into which the object of this invention is inputted for every page] — or alter operation of the image information to an album in agreement is made simple, and it is in offering the album mold image database system which can shorten the duration which registration of this album takes.

[0008] Other objects and new descriptions are clarified by description and the accompanying drawing of this description at said row of this invention.

[0009]

[Means for Solving the Problem] In order to attain said object, it sets to this invention. The album which can be specified as only by one or more indexes or keywords is defined. This album is constituted by one or more pages. For every page concerned one or more image information in the album mold image database system registered by matching with the input condition of the fractional dimension within the class of this image information, and the page concerned of this image information, the information on a display position, and this image information Consider the input condition of the fractional dimension within the class of image information registered into the page which constitutes an album, and the page of this image information, a display position, and this image information as a page type, and definition and registration of it are done. At the time of registration of the image information to an album, choose a desired page type out of the already registered page type, and a page is set as the above-mentioned album at it. It is characterized by changing these parts and registering image information into the page concerned according to the input condition of the fractional dimension of the class of image information which it comes to set as this page by this, and this image information, a display position, and this image information.

[0010]

[Function] The class of image information which is inputted into the page which constitutes an album as a page type according to the above-mentioned means, The group of information, such as an input condition of image information, a display position of image information, and a fractional dimension of image information, is defined and registered. Choose a desired page type out of the page type by which registration was carried out [above-mentioned] at the time of registration of an album, and a page is set as an album. Since the group of information, such as a class of image information, an input condition of image information, a display position of image information, and a fractional dimension of image information, is set as this page by this, For every image information inputted into a page like this conventional kind of system, the class of this image information, It is not necessary to set up the group of information, such as an input condition, a display position, and a fractional dimension, a part of group of this information can be changed according to the group of the information by which setting out was carried out [above-mentioned], and image information can be inputted into a page.

[0011] For this reason, actuation of setting up the group of information, such as a class of the above-mentioned image information incidental to image information and an input condition, becomes very simple, and the duration which the input of image information and registration of an album take can be shortened substantially. or [moreover, / to which the magnitude of a database becomes large / that it is alike and the group of the above-mentioned information is in agreement by following] — or it is expected that the number of the albums which have a similar page increases, and the duration which the facilitation of actuation which sets up *** of the information incidental to the above-mentioned image information, the input of image information, and registration of an album take can be shortened.

[0012]

JP,05-012392,A [DETAILED DESCRIPTION]

[Example] Hereafter, the example of this invention is explained to a detail using a drawing.

[0013] The mimetic diagram having shown in the detail the content from which drawing and drawing 3 which show the outline configuration of equipment for the flow chart and drawing 2 which showed the page type registration procedure in which of drawing 1 was one example of this invention to carry out one example of this invention are stored in the album storing section in drawing 2, the page type storing section, and the album type storing section, and drawing 4 are the mimetic diagrams having shown one example of a page type setting-out screen.

[0014] The operation equipment of the album mold image database system of this example is equipped with the computer 18 which consists of main memory 16 and arithmetic and program control 17 including the external storage 14 which consists of an output unit 13 which consists of indicating equipments, such as the image information input device 12 which consists of a camera for inputting the mouse for inputting a command, the command input device 11 which consists of a keyboard, and image information as shown in drawing 2, a scanner, etc., a display, and CRT, an optical disk, etc., and the type Management Department 15. And in said type Management Department 15, said external storage 14 contains page type storing section 15A and album type storing section 15B including album storing section 14A.

[0015] The detail of these album storing section 14A, page type storing section 15A, and album type storing section 15B is shown in drawing 3.

[0016] The albums A1 and A2 and A3 which were created are stored in album storing section 14A. One album consists of one or more pages PG1, PG2, and PG3, and one or more image information M1, M2, and M3 is written in each page.

[0017] One or more page types PT1 and PT2 give the page type number PN to page type storing section 15A, and are stored in it. One page type has the groups GJ1, GJ2, and GJ3 of one or more image information. the image information number GN gives the group of each image information — having — (**) — the class of image information, and (**) — information, such as an input condition of the display-position (d) this image information within the fractional dimension within the page concerned of this image information and the page concerned of this (Ha) image information, is written in.

[0018] One or more already registered album types AT1, AT2, and AT3 give the album type number AN to album type storing section 15B, and are stored in it, and it has the item for filling in suitably the index for registration / retrieval or keyword of an album.

[0019] An example of a page type setting-out screen is shown in drawing 4. In drawing 4, Bi (i= 1, 2, 3, 4) is the carbon button which chooses the class of image information, and, for B1, a monochrome photograph and B-2 are [a black and white scanner image and B4 of a color photography image and B3] color scanner images. C is the input condition setting-out field of image information, and the point of the upper left hand corner of this image information input area and a lower right angle and W of the image information input area where the input area of a page type name and IR were set as the setting-out field of an image information input area, and IM was set as the setting-out field IR of an image information input area for N, and P1 and P2 are the display screens.

[0020] Next, the page type registration procedure in the album mold image database system of this example is explained.

[0021] Page type registration chooses a page type add function at step 1, as shown in drawing 1.

[0022] The page type setting-out screen of drawing 4 is expressed to the display screen W of an image display device 3 as step 2.

[0023] The name of the page type to register is inputted at step 3. In the example shown in drawing 4, a page type name is inputted into the page type name input area N from the keyboard of a command input device 11.

[0024] The class of image information to input is chosen at step 4. In the example of drawing 4, the class of image information corresponding to the this specified carbon button Bi is chosen by specifying a carbon button Bi using the keyboard or mouse of a command input device 11.

[0025] At step 5, the display position and fractional dimension of the image information inputted are set up. In the example of drawing 4, the display position and fractional dimension of image information are set up by using the mouse or keyboard of a command input device 11 for the setting-out field IR of an image information input area, and specifying the point P1 of the upper left hand corner of the image information input area IM, and the point P2 of a lower right angle.

[0026] At step 6, conditions, such as resolution, brightness, and the number of bits per pixel, are set as the image information input condition field C for example, to a color scanner image.

[0027] At step 7, it judges whether the procedure from step 4 to step 6 is repeated. Here, in repeating, it progresses to step 4, and when not repeating, it progresses to step 8.

[0028] At step 8, the page type set up by the procedure from step 3 to step 7 is registered. The page type number PN is given automatically.

[0029] Next, the registration procedure of the image information in the album mold image database system which is this example is explained using drawing 2, drawing 3, drawing 5, and drawing 6.

[0030] The flow chart which showed the registration procedure of image information [in / in drawing 5 / the album mold image database system of this example], and drawing 6 are the mimetic diagrams having shown one example of the page set up in the album by choosing and specifying one desired page type out of the already registered page type.

[0031] The registration procedure of image information chooses the add function of image information at step 21, as shown in drawing 5.

[0032] At step 22, the album which should choose and register a desired type from the album type already registered into album type storing section 15B of drawing 2 is set up.

[0033] At step 23, a value is set as the index for registration / retrieval and keyword of this album.

[0034] At step 24, the page which sets one page as this album, or has already been set as this album is chosen.

[0035] At step 25, it judges whether a page type is specified as the page set up or chosen at step 24. When specifying a page type, it progresses to step 26, and when not specifying a page type, it progresses to step 27.

[0036] At step 26, a desired page type is chosen and specified out of the page type already set up and registered as shown in the page set up or chosen at step 24 at 15A of drawing 3.

[0037] One example of the page set up by specifying a page type as drawing 6 is shown. By drawing 6, IM1 to a page and IM4 are image information input areas, the class of image information to input and the input condition of image information match PG with IMi (i= 1, 2, 3, 4), and it registers with this page. In order to display the class of image information of IMi, IMi is displayed using a different color for every class of image information.

[0038] At step 27, it judges whether image information is inputted into the image information input area IMi set up by page type assignment, and when inputting image information into the image information input area IMi, it progresses to step 28. When not using the image information input area IMi set up, it progresses to step 34.

[0039] At step 28, one desired image information input area IMi in IM4 is chosen from the image information input area IM 1 set as the page concerned by specifying a page type.

[0040] At step 29, it judges whether the image information input condition set as the selected image information input area IMi, an image display location, and an image display dimension are changed. When not changing, it progresses to step 31. When changing, it progresses to step 30.

JP,05-012392,A [DETAILED DESCRIPTION]

[0041] At step 30, the image information input condition set as the image information input area IM_i, an image display location, and an image display dimension (the location and dimension of an image information input area) are changed. For example, by specifying modification, the input condition set up is displayed on an image display screen, and a change of an image information input condition is made by correcting and changing the set point of this input condition with the keyboard of a command input device 11. Modification of an image display location or a fractional dimension specifies modification, newly specifies the location of the upper left hand corner of an image information input area, and the location of an upper right corner in a page, and is performed by newly setting up an image information input area.

[0042] Desired image information is inputted into the selected image information input area IM_i from the image information input unit 12, and it expresses to the output units 13, such as CRT, as step 31. At step 32, it judges whether image information is inputted further. When progressing to step 33 when inputting image information, and not inputting, it progresses to step 36.

[0043] At step 33, it judges whether a page is changed although image information is inputted further. When not changing a page, it progresses to step 28, and when changing a page, it progresses to step 24.

[0044] When inputting image information without using for step 35 the image information input area IM set as the page from step 34, or since the page type is not specified, it is a procedure in the case of inputting image information into the page to which the image information input area is not set.

[0045] The class of image information to input is chosen and specified at step 34. As a class of image information, there are color photography image information, monochrome photograph image information, color scanner image information, and black and white scanner image information, for example.

[0046] At step 35, the input condition of the image information to input, an image display location, and an image display dimension are set up. As an input condition of image information, there is the number of bits per pixel etc., for example in the resolution and the ** lightness to color scanner image information. After processing of step 35 is completed, it progresses to step 31.

[0047] At step 36, an album is registered and registration processing of image information is ended.

[0048] So that the above explanation may show in the album mold image database system of this example The class of image information inputted into a page, the input condition of image information, the display position of image information. And consider the group of the information of the fractional dimension of image information as a page type, and definition and registration of it are done. Choose a desired page type out of the page type by which registration was carried out [above-mentioned] at the time of registration of an album, and a page is set as an album. By this, according to the group of information, such as a class of image information set as this page, an input condition of image information, a display position of image information, and a fractional dimension of image information, a part of group of this image information can be changed, and image information can be inputted into this page. or [for this reason, / that the group of information, such as a class of image information inputted for every page, an input condition of image information, a display position of image information, and a fractional dimension of image information, is in agreement] — or the alter operation of the image information to a similar album becomes easy, and the duration which registration of the input and album of image information takes can be shortened substantially.

[0049] or [to which the magnitude of a database becomes large / that it is alike and the group of the above-mentioned information is in agreement by following] — or it is expected that the number of the albums which have a similar page increases, and it becomes that the advantage which the system of this invention called compaction of the duration which the facilitation of actuation which sets up the group of the information incidental to the above-mentioned image information, the input of image information, and registration of an album take has is effective increasingly.

[0050] As mentioned above, although this invention was concretely explained based on the example, it cannot be overemphasized that it can change variously in the range which this invention is not limited to said example and does not deviate from the summary.

[0051]

[Effect of the Invention] As explained above, according to the album mold image database system of this invention For every image information inputted into a page like this conventional kind of system, the class of this image information. Since it is not necessary to set up the group of information, such as an input condition, a display position, and a fractional dimension, a part of group of this information is changed according to the group of the information by which setting out was carried out [above-mentioned] and image information is inputted into a page Actuation of setting up the group of information, such as a class of the above-mentioned image information incidental to image information and an input condition, becomes very simple, and the duration which the input of image information and registration of an album take can be shortened substantially.

[Translation done.]

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] The flow chart explaining the page type registration procedure in the album mold image database system which is one example of this invention,

[Drawing 2] Drawing showing the outline configuration of the equipment for carrying out one example of this invention,

[Drawing 3] The mimetic diagram having shown the content stored in the memory apparatus in drawing 2 in the detail,

[Drawing 4] The mimetic diagram having shown one example of the page type setting-out screen of this invention,

[Drawing 5] The flow chart which showed the registration procedure of the image information in the album mold image database system which is this example,

[Drawing 6] The mimetic diagram having shown one example of the page set up in the album by choosing and specifying one desired page type out of the page type with which this example is already registered,

[Drawing 7] The flow chart explaining the registration procedure of the image information in the conventional album mold image database system.

[Description of Notations]

11 — A command input device, 12 — An image information input unit, 13 — Output unit, 14 — External storage, 14A — The album storing section, 15 — Type Management Department, 15A — The page type storing section, 15B — The album type storing section, 16 — Main memory, 17 [— Page,] — Arithmetic and program control, 18 — A computer, A — An album, PG M [— The group of image information,] — Image information, PT — A page type, PN — The page number, GJ GN [— A page type name input area, IR / — The setting-out field of an image information input area IM / — An image information input area, P1 P2 / — The point of the upper left hand corner of the image information input area IM, and an upper right corner, W / — Display screen.] — An image information number, B — A carbon button, C — An image information input condition setting-out field, N

[Translation done.]

* NOTICES *

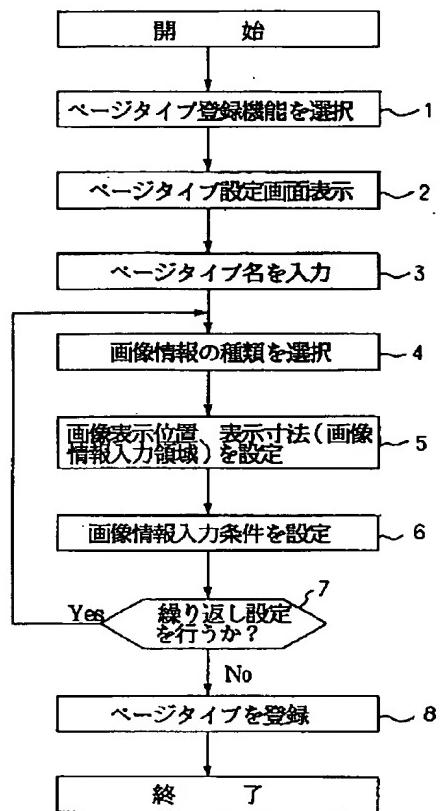
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DRAWINGS

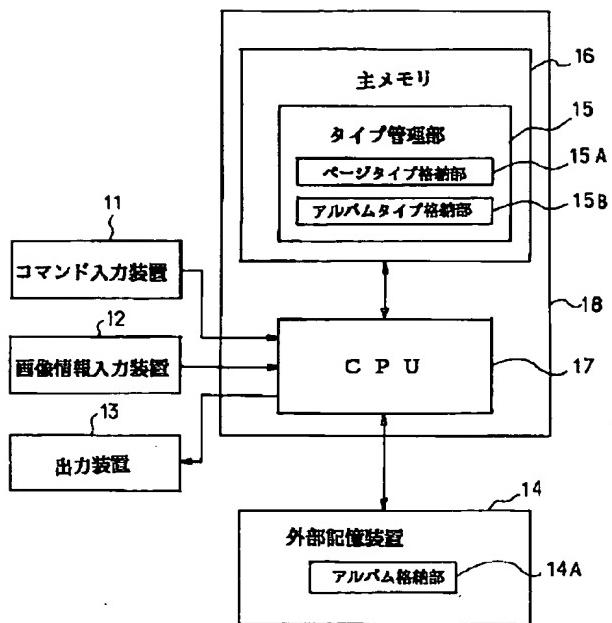
[Drawing 1]

図 1



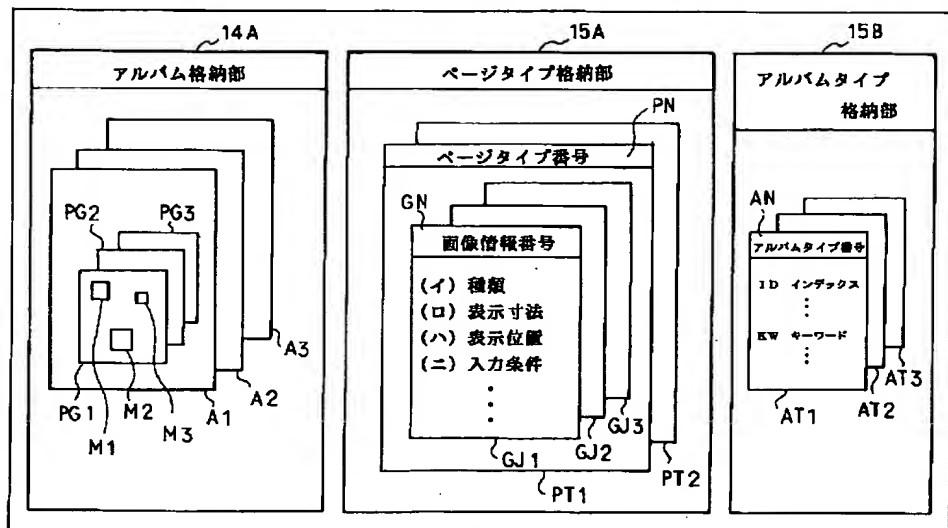
[Drawing 2]

図2



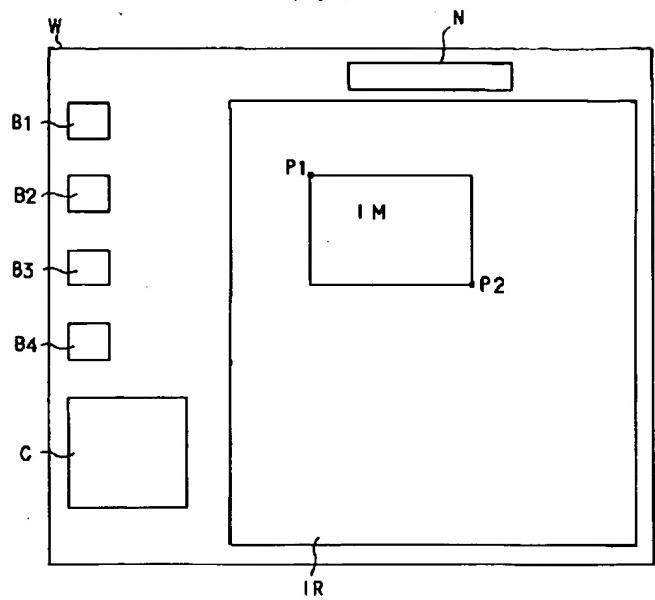
[Drawing 3]

図3



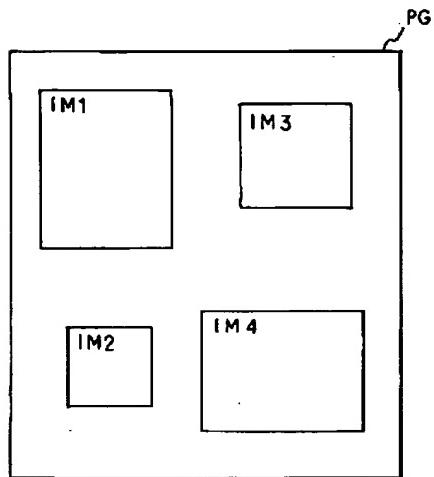
[Drawing 4]

[FIG] 4



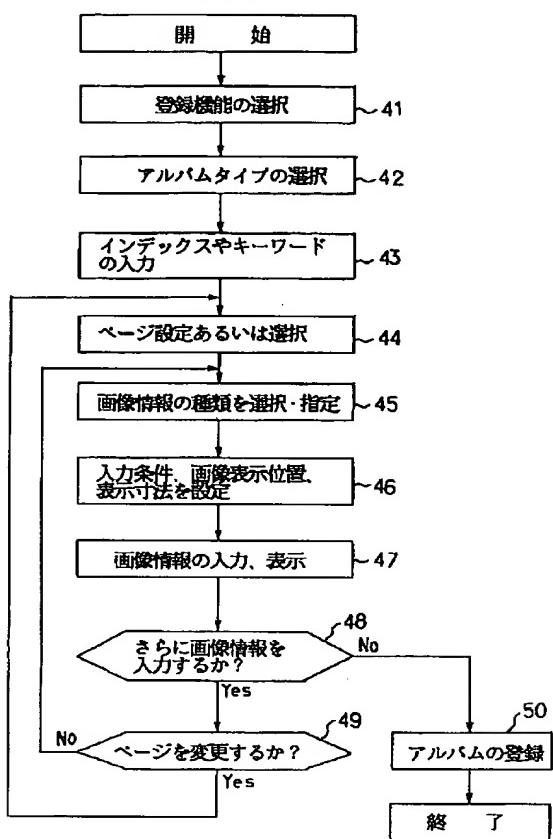
[Drawing 6]

[FIG] 6



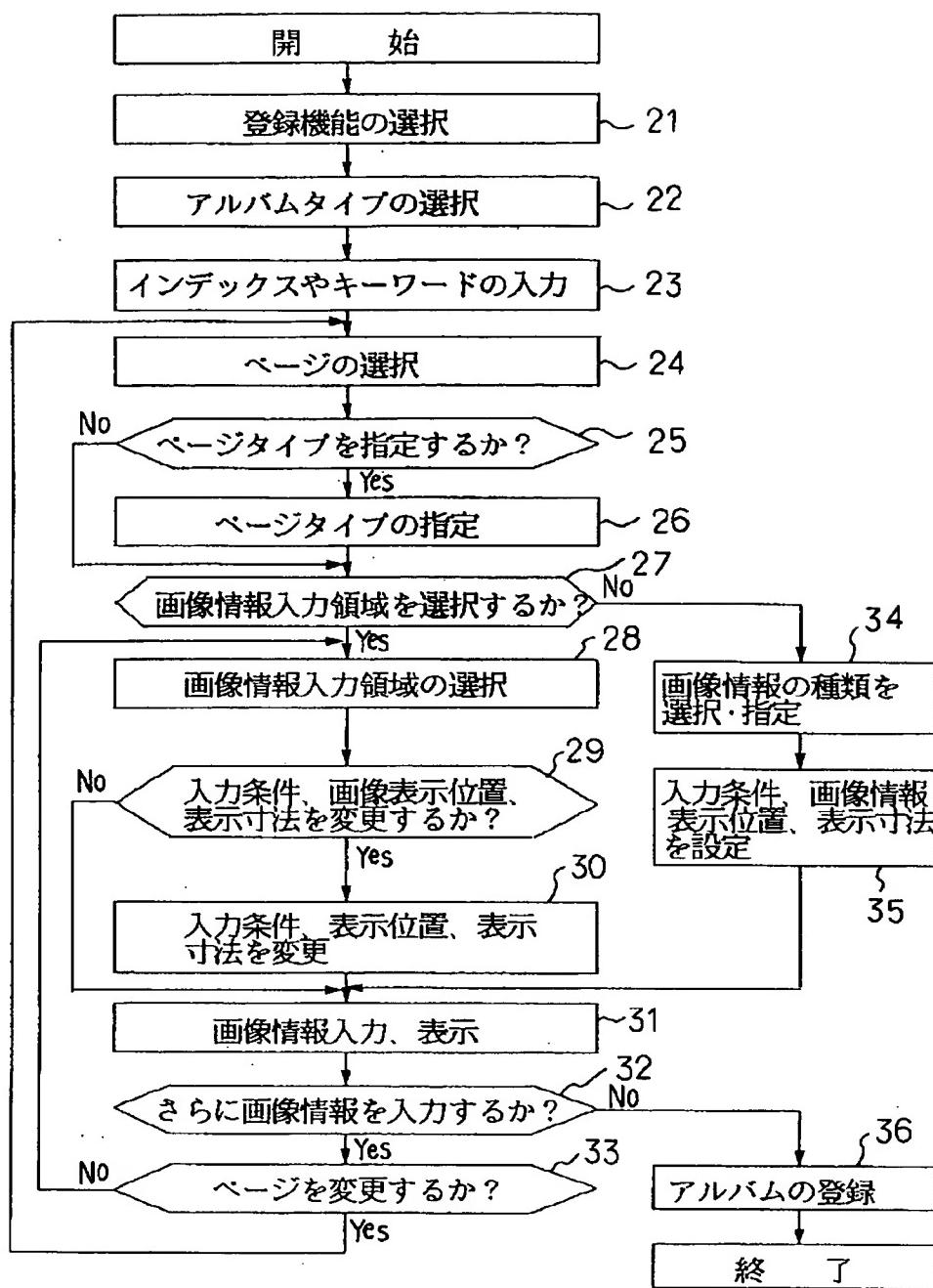
[Drawing 7]

図 7



[Drawing 5]

図 5



[Translation done.]

[0027]ステップ7では、ステップ3からステップ6までの手順を繰り返すか否かを判定する。ここで、繰り返す場合にはステップ4へ進み、繰り返さない場合はステップ8へ進む。

[0028]ステップ8では、ステップ3からステップ7までの手順により設定されたページタイプを監視する。
 2. ページタイプ番号PNIは、自動的に付与される。

[0029]次に、図2、図3、図5及び図6を用いて説明する。

〔004-2〕ステップ3-1では、選択した面像情報を入力領域の左上角及び右下角の点、Wは表示面面である。

〔004-2〕次に、本実施例のアルバム型面像データベース機能の設定領域1-Rに設定された面像情報の領域P1及びP2は該面像情報入力領域の左上角及び右下角の点、Wは表示面面である。

〔004-3〕次に、該アルバムの種類・検索結果を表示する。

〔004-4〕ステップ3-1では、選択した面像情報を入力領域1-Mに所置の面像情報を面像情報を表示領域1-2から入力し、CRT等の出力装置1-3に表示する。ステップ3-2では、該アルバムの種類・検索結果を表示することによって行われる。

【0035】ステップ2.5では、画像表示装置3の表示画面に表示されたページにページタイプを指定するか否かを判断する。ページタイプを指定する場合はステップ2.8へ進み、ページを変更する場合はステップ2.4へ進む。

[0044]ステップ3.4からステップ3.5は、ページに記載されている画面操作入力部成Mを用ひないで画面情報を入力する場合、あるいはペジタイプが指定されない場合は、
2.6～2.9に、ペジタイプを指定しない場合は、
2.7～2.8。
[0036]ステップ2.6では、ステップ2.4で設定された
[0023]ステップ3では、登録するページタブの
名前を入力する。図4に示した例では、ページタブ名
を「削除N」コマンド入力部装置1のキーボードからベ

[100.4.6] ステップ 3 では、入力する画像情報の入力条件、画像表示方法を設定する。画像情報の入力条件としては、例えばカラースキーナー画像情報の入力条件では、例えば IMI の画像情報の種類毎に異なる色を用いて IMI 上に表示する。IMI の画像情報の種類を表示するためには、例えば画像情報の種類毎に異なる色を用いて IMI 上に表示する。IMI の例では、画像情報の種類毎に異なる色を用いて IMI 上に表示する。

[0.3.8] ステップ2 7では、ページタブの指定により、既定された画像情報入力領域1Mに画像情報を入力する。また、既定された画像情報入力領域1Mに表示される。

(3)

レジストタイプを選択してアルハイムにページを設定し、これによって該ページに面倒情報の添付、面倒情報の入力条件、面倒情報の表示位置及び面倒情報の表示十行といつても該情報の組が設定されため、将来この風のシステムのようにページに入力する面倒情報毎に前画面情報の種類、入力条件、表示位置及び表示十行といった情報の組を設定する必要がなく、上記設定された情報の組に従って、あるいは該情報の組の一部を変更して、ページに面

の数が多くなることが予想され、上記の画像辨別に付随した辨別の誤みを設定する操作の簡便化や画像辨別の入力機能を強化する所要制御を短縮することができる。
[0012]

「実施例」以下、本発明の実施例を図面を用いて詳細に説明する。
【図1】図1は、本発明の1つの実施例であるべー（0013）フローチャート、図2は、

本発明の1つの例を実施するための装置の構成を示す。図2におけるアルベル格納部、ベーシャタイプ格納部及びアルバムタイプ格納部に格納される内容は、ベーシシャタイプ設定画面

[0014] 本実施例のアルバム型画像データベースシステムの実施装置は、図2に示すように、コマンドを入力した例を示した様式図である。

カスするための、マウス、キーボードによるコマンド入力装置 11、画像情報を入力するためのカメラ、スキャナ等からなる画像情報入力装置 12、ディスプレイ、C

R 10分の表示がよりなる出力装置 1-3、光ディスク等
よりなり外部記憶装置 1-4、タイプ管理部 1-5を含む主
メモリ 1-6及び中央演算処理装置 1-7からなるコンピュ

ーナー1を加えている。そして、両記述部間に接続部14は、アルバム滑動部14Aを含み、前記タイプ管理部15は、ページタイプ滑動部15Aと、アルバムタイプ滑動部15Bを含んでいる。

[10015] これらアルバム格納部14A、ページタイ
格納部15A及びアルバムタイプ格納部15Bの詳細
を以下に示す。

[0016] アルバム格納部14Aには、作成されたアルバムA1、A2、A3が格納される。1つのアルバムは、1つあるいは複数のページPG1、PG2、PG3

1. M2, M3が書き込まれている。
からなり、各ページには1つあるいは複数の画像情報M

【アルバム画面データベースシステムでは、ページに入力可能な面像情報の範囲、面像情報の入力条件、面像情報の表示位置、及び面像情報の表示寸法といった情報の組をページタイプとして定義。整数し、アルバムの既存タイプを承認してアリームにページを設定し、これによつて該ページに設定される面像情報の範囲、面像情報の入力条件、面像情報の表示位置、及び面像情報の表示寸法といった情報の組をページに入力することができる。このため、ページ毎に設定される面像情報の範囲、面像情報の入力条件、面像情報の表示位置、及び面像情報の表示寸法といった情報の組が一致するかあるときは類似する、アルバムへの面像情報の入力操作が簡単となり、面像情報の入力、アルバムの登録に要する所要時間は大幅に短縮することができる。

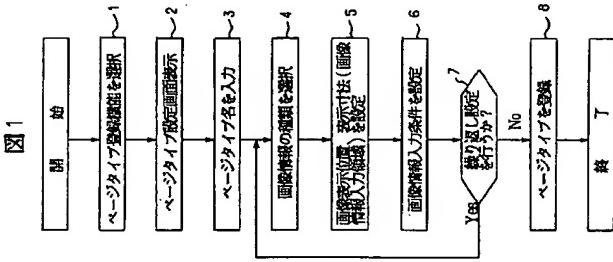
【0049】データベースの規模が大きくなるにつれて、上記情報の組が一貫するあるいは類似するページを有するアルバムの数が多くなることが予想され、上記の面像情報に付した情報の組を設定する操作の簡便化を目的とした本発明のシステムが有する要所が、益々多くなる。

10050]以上、本発明を実施例に基づき具体的に説明したが、本発明は、前記実施例に限定されるものではなく、その要旨を逸脱しない範囲において種々変更し得

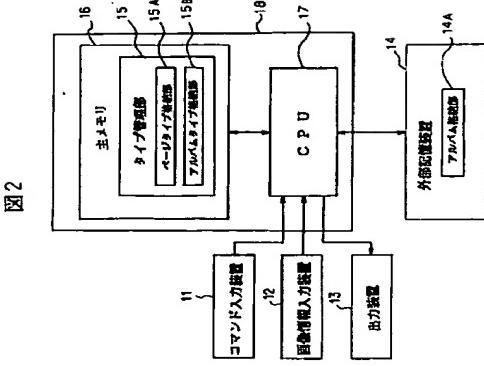
ることばかりでもない。
〔005-1〕
「駿河の駿河」以上説明したように、本駿河のアルバム
駿河データベースシステムによれば、從来のこの種の
システムのようにページにかかる面積が毎年以降像
面積倍増の傾向、入力条件、表示面積及び表示寸法といった
技術的組合を設定する必要がなく、上記設定された情報の
組に従って、あるいは該情報の組の一部を変更して、ベ
シジに面積倍増が組み入る所以で、面積倍増に特化した上

第三回 勝利の運営、人材紹介等の川端の業績を取締る

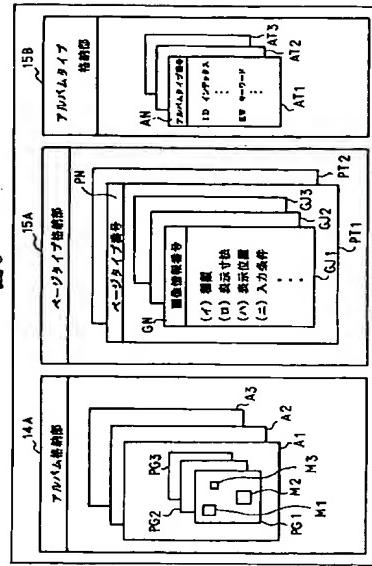
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[2]

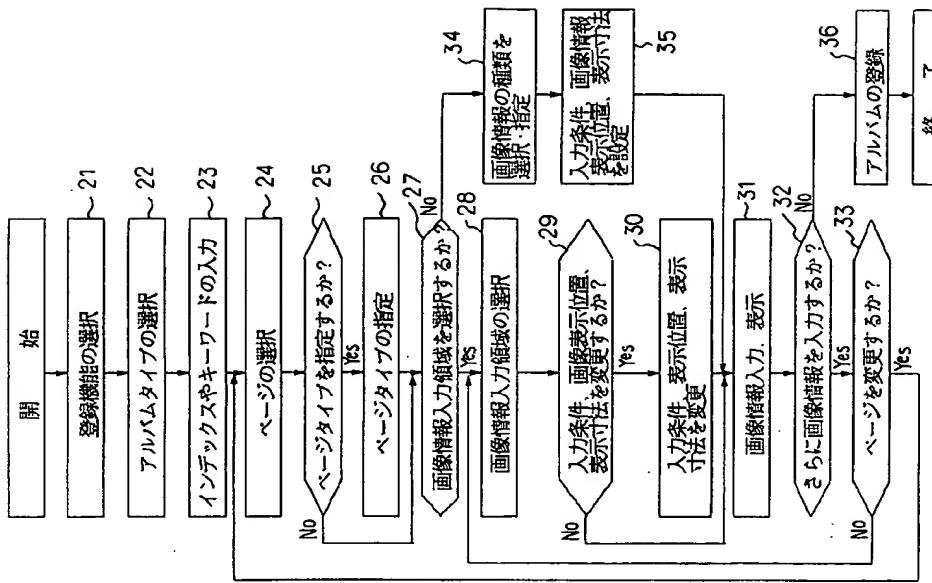


四三一

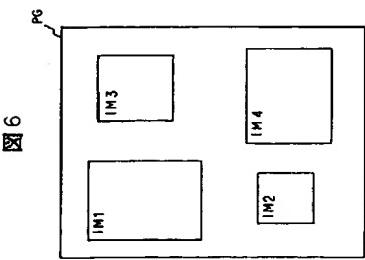


(8)

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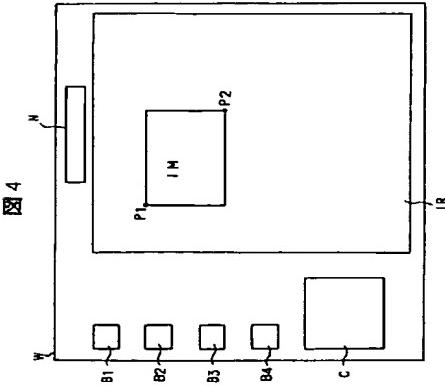


[5]



(7)

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[四] 21

